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Introduction and Data familiarization

This dataset contains a list of video games with it's sales and other details

- Rank Ranking of overall sales
- Name The games name
- Platform Platform of the games release (i.e. PC,PS4, etc.)
- Year Year of the game's release
- Genre Genre of the game
- Publisher Publisher of the game
- NA_Sales Sales in North America (in millions)
- EU Sales Sales in Europe (in millions)
- JP Sales Sales in Japan (in millions)
- Other_Sales Sales in the rest of the world (in millions)
- Global_Sales Total worldwide sales.

After creating a database, importing data and completing basic data cleaning process like null value and duplicate value detection, we analyze the dataset

1. Find the top 10 platforms with highest globally selling video games

• select distinct platform, round(sum(global_sales),3) as total_sale from vgsales group by platform order by total_sale desc limit 10;

	platform	total_sale
•	PS2	1233.46
	X360	969.61
	PS3	949.35
	Wii	909.81
	DS	818.96
	PS	727.39
	GBA	313.56
	PSP	291.71
	PS4	278.1
	PC	255.05

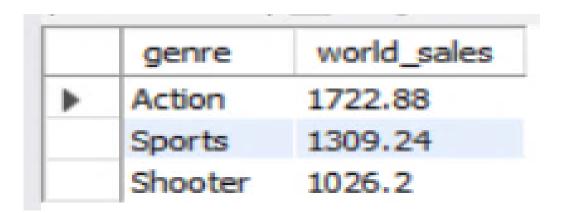
2. Which genre of video games is most famous and purchased in Japan.

```
    create view famous_japan_genre as
        select genre, round(sum(jp_sales),2)as japan_sales
        from vgsales
        group by genre
        order by japan_sales desc
        limit 1;
    select * from famous japan genre;
```

	genre	japan_sales
>	Role-Playing	350.29

3. Which are the top3 genre of video games that is most famous worldwide.

```
    create view top3_games as
        select genre, round(sum(global_sales),2)as world_sales
        from vgsales
        group by genre
        order by world_sales desc
        limit 3;
    select * from top3_games;
```



4. which is the world-wide highest selling game

```
    select vgsales.name, global_sales
    from vgsales
    order by global_sales desc
    limit 1;
```



- 5. Which publishers gets the highest sales from video game publishing in North America.
- select publisher, round(sum(na_sales),2) as north_america_sale from vgsales group by publisher order by north_america_sale desc limit 2;

	publisher	north_america_sale
Þ	Nintendo	815.75
	Electronic Arts	584.22

6. What is the top 3 Pokémon games according to total world wide sales

```
    select vgsales.name ,global_sales
    from vgsales
    where vgsales.name like '%pokemon%'
    order by global_sales desc
    limit 3;
```

	name	global_sales
٠	Pokemon Red/Pokemon Blue	31.37
	Pokemon Gold/Pokemon Silver	23.1
	Pokemon Diamond/Pokemon Pearl	18.36

7. Which is the best selling game, publisher, platform and genre in each year.

Present the data in chronological order.

```
    create view each_year_bestseller as
        select year, name, genre, publisher, global_sales
        from(
        select vgsales.year,vgsales.name, genre, publisher, global_sales,
            rank() over(partition by vgsales.year order by global_sales desc) as ranks
        from vgsales) as t1
        where ranks=1;
        select * from each_year_bestseller;
```

year	name	genre	publisher	global_sales	year	name	genre	publisher	global_sale
1980	Asteroids	Shooter	Atari	4.31	2009	Wii Sports Resort	Sports	Nintendo	33
1981	Pitfall!	Platform	Activision	4.5	2010	Kinect Adventures!	Misc	Microsof	21.82
1982	Pac-Man	Puzzle	Atari	7.81	2011	Call of Duty: Modern Warfare 3	Shooter	Activision	14.76
1983	Baseball	Sports	Nintendo	3.2	2012	Call of Duty: Black Ops II	Shooter	Activision	14.03
1984	Duck Hunt	Shooter	Nintendo	28.31	2013	Grand Theft Auto V	Action	Take-Tw	21.4
1985	Super Mario Bros.	Platform	Nintendo	40.24	2014	Grand Theft Auto V	Action	Take-Tw	11.98
1986	The Legend of Zelda	Action	Nintendo	6.51	2015	Call of Duty: Black Ops 3	Shooter	Activision	14.24
1987	Zelda II: The Adventure of Link	Adventure	Nintendo	4.38	-		- Control of the Cont	0.0000000000000000000000000000000000000	
1988	Super Mario Bros. 3	Platform	Nintendo	17.28	2016	FIFA 17	Sports	Electroni	4.77
1989	Tetris	Puzzle	Nintendo	30.26	2017	Phantasy Star Online 2 Episod	Role-Playing	Sega	0.03
1990	Super Mario World	Platform	Nintendo	20.61	2020	Imagine: Makeup Artist	Simulation	Ubisoft	0.29

8. Which game that released before and after 2000 secured highest world wide sale.

```
-- highest revenue game before 2000
select vgsales.name, vgsales.year, global_sales
from vgsales
where vgsales.year<2000
order by global_sales desc
limit 1;
```

```
name year global_sales

▶ Super Mario Bros. 1985 40.24
```

```
-- highest sold game after 2000
```

select vgsales.name, vgsales.year, global_sales
 from vgsales
 where vgsales.year>=2000
 order by global_sales desc
 limit 1;

	name	year	global_sales
•	Wii Sports	2006	82.74

9. Which is the publisher with most number of games published and the publisher with highest sales.

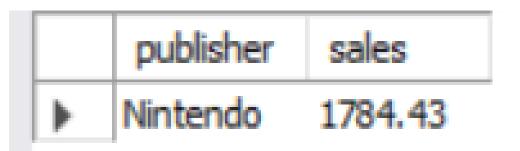
```
-- most number of publications
select publisher, count(publisher) as games_published
from vgsales
group by publisher
order by count(publisher) desc
limit 1;
```

```
publisher games_published

Electronic Arts 1339
```

```
-- most sales
```

select publisher, round(sum(global_sales),2) as sales
from vgsales
group by publisher
order by sum(global_sales) desc
limit 1;



10. Retrieve the details of the oldest and the latest released games with top 3 sales.

```
-- oldest game
select vgsales.year,vgsales.name, genre, publisher, global_sales
from vgsales
where vgsales.year=(select min(vgsales.year) from vgsales)
order by global_sales desc
limit 3;
```

year	name	genre	publisher	global_sales
1980	Asteroids	Shooter	Atari	4.31
1980	Missile Command	Shooter	Atari	2.76
1980	Kaboom!	Misc	Activision	1.15

```
-- latest game
```

select vgsales.year,vgsales.name, genre, publisher, global_sales from vgsales where vgsales.year=(select max(vgsales.year) from vgsales) order by global_sales desc limit 3;

year	name	genre	publisher	global_sales
2020	Imagine: Makeup Artist	Simulation	Ubisoft	0.29

11. Retrieve top 3 selling games and it's details in Japan, North America, Europe.

```
    select vgsales.year,vgsales.name, genre, publisher, jp_sales
from vgsales
    where jp_sales=(select max(jp_sales) from vgsales);
```

- select vgsales.year,vgsales.name, genre, publisher, eu_sales from vgsales
 where eu_sales=(select max(eu_sales) from vgsales);
- select vgsales.year,vgsales.name, genre, publisher, na_sales from vgsales
 where na_sales=(select max(na_sales) from vgsales);

year	name	genre	publisher	jp_sales
1996	Pokemon Red/Pokemon Blue	Role-Playing	Nintendo	10.22

year	name	genre	publisher	eu_sales
2006	Wii Sports	Sports	Nintendo	29.02

year	name	genre	publisher	na_sales
2006	Wii Sports	Sports	Nintendo	41.49



THANK YOU

BIJI T J ELEVATE LABS